Fig. 1

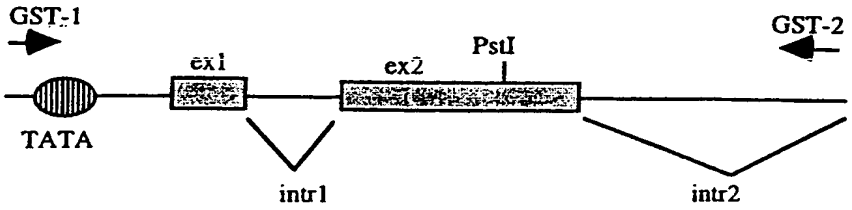


Fig. 2

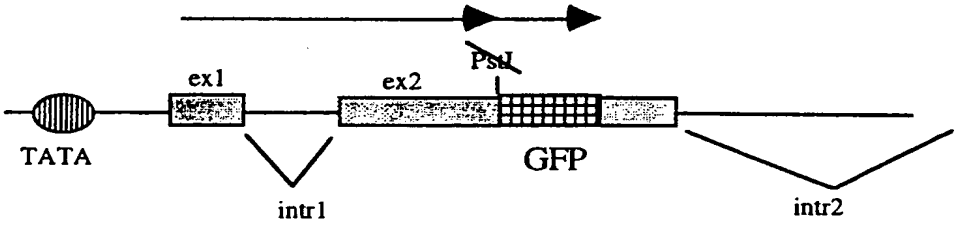


Fig. 3

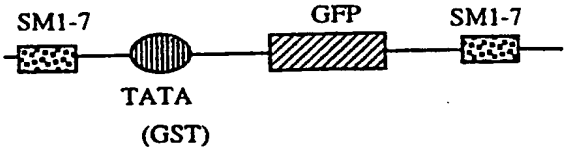


Fig. 4

GSTGFP Length: 5356 February 18, 1998 09:24 Type: N Check: 5900 ..

features:

GFP gene: 56-769
the first part of the genomic GST gene: 4460-5350
the second part of the genomic GST gene: 769-1600
the Amp resistance gene (complementary): 3642-2809

```
   1  AGCTTGCATG CCTGCAGGTC GACTCTAGAG GATCCCCGGG TACCGGTAGA
  51  AAAAATGAGT AAAGGAGAAG AACTTTTCAC TGGAGTTGTC CCAATTCTTG
 101  TTGAATTAGA TGGTGATGTT AATGGGCACA AATTTTCTGT CAGTGGAGAG
 151  GGTGAAGGTG ATGCAACATA CGGAAAACTT ACCCTTAAAT TTATTTGCAC
 201  TACTGGAAAA CTACCTGTTC CATGGCCAAC ACTTGTCACT ACTTTCTCTT
 251  ATGGTGTTCA ATGCTTTTCA AGATACCCAG ATCATATGAA ACGGCATGAC
 301  TTTTTCAAGA GTGCCATGCC CGAAGGTTAT GTACAGGAAA GAACTATATT
 351  TTTCAAAGAT GACGGGAACT ACAAGACACG TGCTGAAGTC AAGTTTGAAG
 401  GTGATACCCT TGTTAATAGA ATCGAGTTAA AAGGTATTGA TTTTAAAGAA
 451  GATGGAAACA TTCTTGGACA CAAATTGGAA TACAACTATA ACTCACACAA
 501  TGTATACATC ATGGCAGACA AACAAAAGAA TGGAATCAAA GTTAACTTCA
 551  AAATTAGACA CAACATTGAA GATGGAAGCG TTCAACTAGC AGACCATTAT
 601  CAACAAAATA CTCCAATTGG CGATGGCCCT GTCCTTTTAC CAGACAACCA
 651  TTACCTGTCC ACACAATCTG CCCTTTCGAA AGATCCCAAC GAAAAGAGAG
 701  ACCACATGGT CCTTCTTGAG TTTGTAACAG CTGCTGGGAT TACACATGGC
 751  ATGGATGAAC TATACAAATA GCATTCGTAG AATTCTATTG CACGGTATAT
 801  GGCGAAGAAA CATCATATGA TGGGTGAAAC AGACGAGGAA TACTATAGTG
 851  TTGAAAAGTT GATTGGTCAG GTGAGTTGAG CCTTTTATTG GTTGATGGGA
```

Fig. 4 (continued)

901 TTTTATGCTA CTGGAGTCCT GTAAGTTCAG TTTGTTGCGT TGAATAAATA

951 AAGTTCGAAT TGATAGGCGA GTGGTAACCT ATGTGTTGTG ATTACTAAAA

1001 GTCATAAGTG TGAGGTATCC CAATTATTAG AAATGTGACT AAGACTGAGC

1051 TTTTCTGCCT ATTGGGATAT TACAGATAAG TTACTTATTT GTAGTATCGT

1101 AATAGTGTTC ACTGGGAACC ATCTAATTCA CTCTCAAAAA TACTTTATCG

1151 TGTCTTATTT TATTCATCCT CATAACTCGT TTGCTAGGAG AACAGCTGTG

1201 CCCATAGGTT AGTTGACAAG TTACTTACTT CCCCATGATA CGCCTTATTT

1251 TAATAACCTA ATAAAGGCTC GGTTACGTAA CGTCCCTATA GTGCATAGCA

1301 TACCTACGAA CATTGACTCC CAACTGATTA AGTGCGGATT GCATTTTTTT

1351 GGATGTTATC GCACAGTAAG ACAATACCAT CCTCATCTCA ATGTCAAGAG

1401 GTCTTTCTCC AGGCAACAGA TCCATACCAC CATTACTTAC ATCCATCAGA

1451 GCTGTTCCCA GAATGTCTTG TTATAAACGG ATGGATTATT TATTTATTTG

1501 ACCACATAAA TATTGCATCA AAGAGGTGGG GGATCCACTA GTTCTAGAGC

1551 GGCCGCCACC GCGGTGGAGC TCCAGCTTTT GTTCCCTTTA GTGAGGGTTA

1601 ATTGCGCGCT TGGCGTAATC ATGGTCATAG CTGTTTCCTG TGTGAAATTG

1651 TTATCCGCTC ACAATTCCAC ACAACATACG AGCCGGAAGC ATAAAGTGTA

1701 AAGCCTGGGG TGCCTAATGA GTGAGCTAAC TCACATTAAT TGCGTTGCGC

1751 TCACTGCCCG CTTTCCAGTC GGGAAACCTG TCGTGCCAGC TGCATTAATG

1801 AATCGGCCAA CGCGCGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG

1851 CTTCCTCGCT CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG

1901 GTATCAGCTC ACTCAAAGGC GGTAATACGG TTATCCACAG AATCAGGGGA

1951 TAACGCAGGA AAGAACATGT GAGCAAAAGG CCAGCAAAAG GCCAGGAACC

2001 GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC ATAGGCTCCG CCCCCCTGAC

Fig. 4 (continued)

2051 GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA ACCGACAGGA

2101 CTATAAAGAT ACCAGGCGTT TCCCCCTGGA AGCTCCCTCG TGCGCTCTCC

2151 TGTTCCGACC CTGCCGCTTA CCGGATACCT GTCCGCCTTT CTCCCTTCGG

2201 GAAGCGTGGC GCTTTCTCAT AGCTCACGCT GTAGGTATCT CAGTTCGGTG

2251 TAGGTCGTTC GCTCCAAGCT GGGCTGTGTG CACGACCCCC CGTTCAGCCC

2301 GACCGCTGCG CCTTATCCGG TAACTATCGT CTTGAGTCCA ACCCGGTAAG

2351 ACACGACTTA TCGCCACTGG CAGCAGCCAC TGGTAACAGG ATTAGCAGAG

2401 CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC

2451 GGCTACACTA GAAGGACAGT ATTTGGTATC TGCGCTCTGC TGAAGCCAGT

2501 TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG

2551 CTGGTAGCGG TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA

2601 AAAGGATCTC AAGAAGATCC TTTGATCTTT TCTACGGGGT CTGACGCTCA

2651 GTGGAACGAA AACTCACGTT AAGGGATTTT GGTCATGAGA TTATCAAAAA

2701 GGATCTTCAC CTAGATCCTT TTAAATTAAA AATGAAGTTT TAAATCAATC

2751 TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG

2801 TGAGGCACCT ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT

2851 GACTCCCCGT CGTGTAGATA CTACGATACG GGAGGGCTTA CCATCTGGCC

2901 CCAGTGCTGC AATGATACCG CGAGACCCAC GCTCACCGGC TCCAGATTTA

2951 TCAGCAATAA ACCAGCCAGC CGGAAGGGCC GAGCGCAGAA GTGGTCCTGC

3001 AACTTTATCC GCCTCCATCC AGTCTATTAA TTGTTGCCGG GAAGCTAGAG

3051 TAAGTAGTTC GCCAGTTAAT AGTTTGCGCA ACGTTGTTGC CATTGCTACA

3101 GGCATCGTGG TGTCACGCTC GTCGTTTGGT ATGGCTTCAT TCAGCTCCGG

3151 TTCCCAACGA TCAAGGCGAG TTACATGATC CCCCATGTTG TGCAAAAAAG

Fig. 4 (continued)

3201 CGGTTAGCTC CTTCGGTCCT CCGATCGTTG TCAGAAGTAA GTTGGCCGCA

3251 GTGTTATCAC TCATGGTTAT GGCAGCACTG CATAATTCTC TTACTGTCAT

3301 GCCATCCGTA AGATGCTTTT CTGTGACTGG TGAGTACTCA ACCAAGTCAT

3351 TCTGAGAATA GTGTATGCGG CGACCGAGTT GCTCTTGCCC GGCGTCAATA

3401 CGGGATAATA CCGCGCCACA TAGCAGAACT TTAAAAGTGC TCATCATTGG

3451 AAAACGTTCT TCGGGGCGAA AACTCTCAAG GATCTTACCG CTGTTGAGAT

3501 CCAGTTCGAT GTAACCCACT CGTGCACCCA ACTGATCTTC AGCATCTTTT

3551 ACTTTCACCA GCGTTTCTGG GTGAGCAAAA ACAGGAAGGC AAAATGCCGC

3601 AAAAAAGGGA ATAAGGGCGA CACGGAAATG TTGAATACTC ATACTCTTCC

3651 TTTTTCAATA TTATTGAAGC ATTTATCAGG GTTATTGTCT CATGAGCGGA

3701 TACATATTTG AATGTATTTA GAAAAATAAA CAAATAGGGG TTCCGCGCAC

3751 ATTTCCCCGA AAAGTGCCAC CTGACGCGCC CTGTAGCGGC GCATTAAGCG

3801 CGGCGGGTGT GGTGGTTACG CGCAGCGTGA CCGCTACACT TGCCAGCGCC

3851 CTAGCGCCCG CTCCTTTCGC TTTCTTCCCT TCCTTTCTCG CCACGTTCGC

3901 CGGCTTTCCC CGTCAAGCTC TAAATCGGGG GCTCCCTTTA GGGTTCCGAT

3951 TTAGTGCTTT ACGGCACCTC GACCCCAAAA AACTTGATTA GGGTGATGGT

4001 TCACGTAGTG GGCCATCGCC CTGATAGACG GTTTTTCGCC CTTTGACGTT

4051 GGAGTCCACG TTCTTTAATA GTGGACTCTT GTTCCAAACT GGAACAACAC

4101 TCAACCCTAT CTCGGTCTAT TCTTTTGATT TATAAGGGAT TTTGCCGATT

4151 TCGGCCTATT GGTTAAAAAA TGAGCTGATT TAACAAAAAT TTAACGCGAA

4201 TTTTAACAAA ATATTAACGC TTACAATTTC CATTCGCCAT TCAGGCTGCG

4251 CAACTGTTGG GAAGGGCGAT CGGTGCGGGC CTCTTCGCTA TTACGCCAGC

4301 TGGCGAAAGG GGGATGTGCT GCAAGGCGAT TAAGTTGGGT AACGCCAGGG

Fig. 4 (continued)

4351 TTTTCCCAGT CACGACGTTG TAAAACGACG GCCAGTGAGC GCGCGTAATA

4401 CGACTCACTA TAGGGCGAAT TGGGTACCGG GCCCCCCCTC GAGGTCGACG

4451 GTATCGATAA GCTTGATTCA TCGAGAACGG TTTACATGTT CAATGAATCG

4501 AGTCAAATTT GTCTGCTTAA TTTTTATTGG TCACTCTTTC ACAGCCAATG

4551 AGGCACTCAA TAAACAGCGA ATAGAAATGA AATATTTACA GTTAAAATCA

4601 AGAGTTACAC TATTGGCCGA TCTGTTTACT AAATGACTAT TTAATAGTCA

4651 CAGCTCAGAT AGTTAGCACT GTTTTGTCTA TTTGCAAGAT GGCTGGCGAG

4701 CATATCAAGG TGGGTTGGTG TGGTTGTTCG TCATTGTGTT GCTTGGTAAA

4751 TTTTCGAGTG TTGTTAAGGT TCCTAATTGC AGCATTTAGC GGAATAAATA

4801 TTATTCCGCT ATATGAAGGT AAATACTGAG TCCATGTTAA TTGCACATTA

4851 GATCCGTACA TATATTTGGC TGTGATTTTC CACGTCATCA GGTCAGTAAG

4901 TTACGTGTTC ACACTGGGTT CTGATATAAT GCACAACCAT TATAGTCACA

4951 TAGTGGTCAC CGATTATGTG TTAGGTGTAG CATTTCAGGC GATGTTATAG

5001 TTTGTCTGTG GAATTGTTAC GAGAACTTAG GGGATTCTAG AGCGTGAATC

5051 CATCTAGTCC ATATCTCAGA GACATGCGTC CATGGAACAG TTATTTATTA

5101 TGTGATGTTT TGTCTGAAGT GGTTTTTTTC AAGCGTAAAT TGATGTGAAA

5151 CACAGCTGTA ATTTCTATAG GTTATCTATT TTGACGGACG CGGACGTGCT

5201 GAATCGATTC GGATGACTCT TGTGGCAGCT GGTGTAGACT ACGAAGATGA

5251 GAGAATTAGT TTCCAAGATT GGCCAAAAAT CAAACCAACT ATTCCAGGCG

5301 GACGATTGCC TGCAGTGAAA GTCACTGATG ATCATGGGCA CGTGAAATGG

5351 ATGTTA

Fig. 5

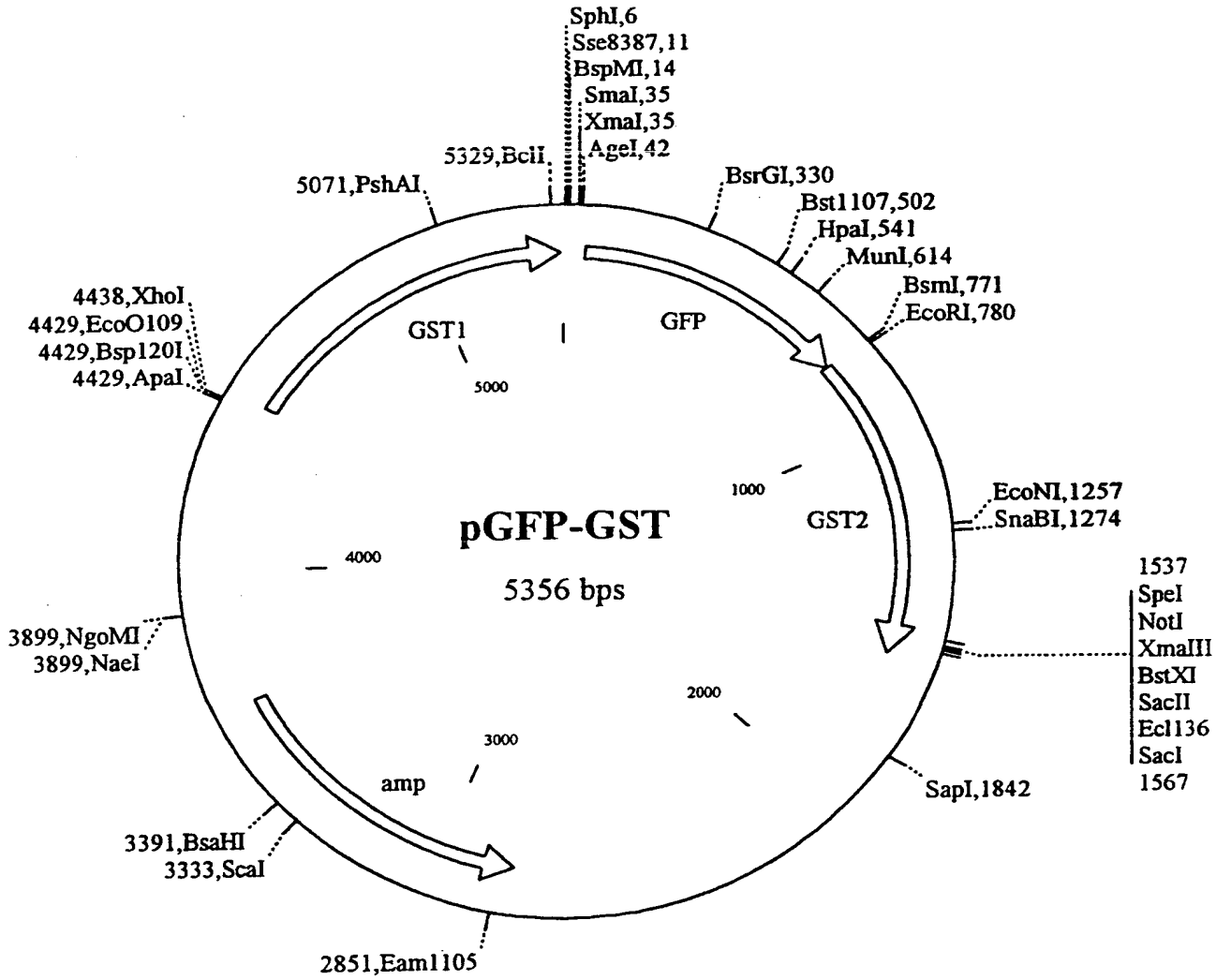

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HpaI,541
MunI,614
BsmI,771
EcoRI,780
4438,XhoI
4429,EcoO109
4429,Bsp120I
4429,ApaI
GST1
GFP
5000
1000
pGFP-GST
5356 bps
GST2
EcoNI,1257
SnaBI,1274
4000
1537
SpeI
NotI
XmaIII
BstXI
SacII
Ecl136
SacI
1567
3899,NgoMI
3899,NaeI
2000
3000
amp
SapI,1842
3391,BsaHI
3333,ScaI
2851,Eam1105

Fig. 6

pSm1-7 GFP SEQUENCE

Length: 6494 February 26, 1998 11:50 Type: N Check: 8163

Features:

first sm repeat	0-560
GST1 gene	560-1520
GFP gene	1530-2265
GST2 gene	2270-3022
second sm repeat	3025-3585

```
   1  GATCTGAATC CGACCAACCG TTCTATGAAA ATCGTTGTAT CTCCGAAACC
  51  ACTGGACGGA TTTTTATGAT GTTTGTTTTA GATTATTTGC GAGAGCGTGG
 101  GCGTTAATAT AAAACAAGAA TGATCTGAAT CCGACCAACC GTTCTATGAA
 151  AATCGTTGTA TCTCCGAAAC CACTGGACGG ATTTTTATGA TGTTTGTTTT
 201  AGATTATTTG CGAGAGCGTG GGCGTTAATA TAAAACAAGA ATGATCTGAA
 251  TCCGACCAAC CGTTCTATGA AAATCGTTGT ATCTCCGAAA CCACTGGACG
 301  GATTTTTATG ATGTTTGTTT TAGATTATTT GCGAGAGCGT GGGCGTTAAT
 351  ATAAAACAAG AATCATCTCA ATCCCATCAG CCGTTCTATG AAAATCGTTG
 401  TATCTCCGAA ACCACTGGAC GGATTTTTAT GATGTTTGTT TTAGATTATT
 451  TGCGAGAGCG TGGGCGTTAA TATAAAACAA GAATGATCTG AACACGGGTG
 501  TTTTTCTGTT CAGCTTATGC AACTTTAAAA TTCGATGGGT CGTCTCAACG
 551  AAATTTGTAT TGCTTTGTCG AGGTCGACGG TATCGATAAG CTTGATTCAT
 601  CGAGAACGGT TTACATGTTC AATGAATCGA GTCAAATTTG TCTGCTTAAT
 651  TTTTATTGGT CACTCTTTCA CAGCCAATGA GGCACTCAAT AAACAGCGAA
 701  TAGAAATGAA ATATTTACAG TTAAAATCAA GAGTTACACT ATTGGCCGAT
 751  CTGTTTACTA AATGACTATT TAATAGTCAC AGCTCAGATA GTTAGCACTG
 801  TTTTGTCTAT TTGCAAGATG GCTGGCGAGC ATATCAAGGT GGGTTGGTGT
 851  GGTTGTTCGT CATTGTGTTG CTTGGTAAAT TTTCGAGTGT TGTTAAGGTT
 901  CCTAATTGCA GCATTTAGCG GAATAAATAT TATTCCGCTA TATGAAGGTA
 951  AATACTGAGT CCATGTTAAT TGCACATTAG ATCCGTACAT ATATTTGGCT
1001  GTGATTTTCC ACGTCATCAG GTCAGTAAGT TACGTGTTCA CACTGGGTTC
1051  TGATATAATG CACAACCATT ATAGTCACAT AGTGGTCACC GATTATGTGT
1101  TAGGTGTAGC ATTTCAGGCG ATGTTATAGT TTGTCTGTGG AATTGTTACG
1151  AGAACTTAGG GGATTCTAGA GCGTGAATCC ATCTAGTCCA TATCTCAGAG
1201  ACATGCGTCC ATGGAACAGT TATTTATTAT GTGATGTTTT GTCTGAAGTG
1251  GTTTTTTTCA AGCGTAAATT GATGTGAAAC ACAGCTGTAA TTTCTATAGG
1301  TTATCTATTT TGACGGACGC GGACGTGCTG AATCGATTCG GATGACTCTT
```

Fig. 6 (continued)

1351 GTGGCAGCTG GTGTAGACTA CGAAGATGAG AGAATTAGTT TCCAAGATTG

1401 GCCAAAAATC AAACCAACTA TTCCAGGCGG ACGATTGCCT GCAGTGAAAG

1451 TCACTGATGA TCATGGGCAC GTGAAATGGA TGTTAAGCTT GCATGCCTGC

1501 AGGTCGACTC TAGAGGATCC CCGGGTACCG GTAGAAAAAA TGAGTAAAGG

1551 AGAAGAACTT TTCACTGGAG TTGTCCCAAT TCTTGTTGAA TTAGATGGTG

1601 ATGTTAATGG GCACAAATTT TCTGTCAGTG GAGAGGGTGA AGGTGATGCA

1651 ACATACGGAA AACTTACCCT TAAATTTATT TGCACTACTG GAAAACTACC

1701 TGTTCCATGG CCAACACTTG TCACTACTTT CTCTTATGGT GTTCAATGCT

1751 TTTCAAGATA CCCAGATCAT ATGAAACGGC ATGACTTTTT CAAGAGTGCC

1801 ATGCCCGAAG GTTATGTACA GGAAAGAACT ATATTTTTCA AAGATGACGG

1851 GAACTACAAG ACACGTGCTG AAGTCAAGTT TGAAGGTGAT ACCCTTGTTA

1901 ATAGAATCGA GTTAAAAGGT ATTGATTTTA AAGAAGATGG AAACATTCTT

1951 GGACACAAAT TGGAATACAA CTATAACTCA CACAATGTAT ACATCATGGC

2001 AGACAAACAA AAGAATGGAA TCAAAGTTAA CTTCAAAATT AGACACAACA

2051 TTGAAGATGG AAGCGTTCAA CTAGCAGACC ATTATCAACA AAATACTCCA

2101 ATTGGCGATG GCCCTGTCCT TTTACCAGAC AACCATTACC TGTCCACACA

2151 ATCTGCCCTT TCGAAAGATC CCAACGAAAA GAGAGACCAC ATGGTCCTTC

2201 TTGAGTTTGT AACAGCTGCT GGGATTACAC ATGGCATGGA TGAACTATAC

2251 AAATAGCATT CGTAGAATTC TATTGCACGG TATATGGCGA AGAAACATCA

2301 TATGATGGGT GAAACAGACG AGGAATACTA TAGTGTTGAA AAGTTGATTG

2351 GTCAGGTGAG TTGAGCCTTT TATTGGTTGA TGGGATTTTA TGCTACTGGA

2401 GTCCTGTAAG TTCAGTTTGT TGCGTTGAAT AAATAAAGTT CGAATTGATA

2451 GGCGAGTGGT AACCTATGTG TTGTGATTAC TAAAAGTCAT AAGTGTGAGG

2501 TATCCCAATT ATTAGAAATG TGACTAAGAC TGAGCTTTTC TGCCTATTGG

2551 GATATTACAG ATAAGTTACT TATTTGTAGT ATCGTAATAG TGTTCACTGG

2601 GAACCATCTA ATTCACTCTC AAAAATACTT TATCGTGTCT TATTTTATTC

2651 ATCCTCATAA CTCGTTTGCT AGGAGAACAG CTGTGCCCAT AGGTTAGTTG

2701 ACAAGTTACT TACTTCCCCA TGATACGCCT TATTTTAATA ACCTAATAAA

2751 GGCTCGGTTA CGTAACGTCC CTATAGTGCA TAGCATACCT ACGAACATTG

2801 ACTCCCAACT GATTAAGTGC GGATTGCATT TTTTTGGATG TTATCGCACA

2851 GTAAGACAAT ACCATCCTCA TCTCAATGTC AAGAGGTCTT TCTCCAGGCA

Fig. 6 (continued)

2901 ACAGATCCAT ACCACCATTA CTTACATCCA TCAGAGCTGT TCCCAGAATG

2951 TCTTGTTATA AACGGATGGA TTATTTATTT ATTTGACCAC ATAAATATTG

3001 CATCAAAGAG GTGGGGGATC CACTAGTTCT AGAGCGGCCG CCACCGCGGT

3051 GGAGGATCTG AATCCGACCA ACCGTTCTAT GAAAATCGTT GTATCTCCGA

3101 AACCACTGGA CGGATTTTTA TGATGTTTGT TTTAGATTAT TTGCGAGAGC

3151 GTGGGCGTTA ATATAAAACA AGAATGATCT GAATCCGACC AACCGTTCTA

3201 TGAAAATCGT TGTATCTCCG AAACCACTGG ACGGATTTTT ATGATGTTTG

3251 TTTTAGATTA TTTGCGAGAG CGTGGGCGTT AATATAAAAC AAGAATGATC

3301 TGAATCCGAC CAACCGTTCT ATGAAAATCG TTGTATCTCC GAAACCACTG

3351 GACGGATTTT TATGATGTTT GTTTTAGATT ATTTGCGAGA GCGTGGGCGT

3401 TAATATAAAA CAAGAATCAT CTCAATCCCA TCAGCCGTTC TATGAAAATC

3451 GTTGTATCTC CGAAACCACT GGACGGATTT TTATGATGTT TGTTTTAGAT

3501 TATTTGCGAG AGCGTGGGCG TTAATATAAA ACAAGAATGA TCTGAACACG

3551 GGTGTTTTTC TGTTCAGCTT ATGCAACTTT AAAATTCGAT GGGTCGTCTC

3601 AACGAAATTT GTATTGCTTT GCTCCAGCTT TTGTTCCCTT TAGTGAGGGT

3651 TAATTGCGCG CTTGGCGTAA TCATGGTCAT AGCTGTTTCC TGTGTGAAAT

3701 TGTTATCCGC TCACAATTCC ACACAACATA CGAGCCGGAA GCATAAAGTG

3751 TAAAGCCTGG GGTGCCTAAT GAGTGAGCTA ACTCACATTA ATTGCGTTGC

3801 GCTCACTGCC CGCTTTCCAG TCGGGAAACC TGTCGTGCCA GCTGCATTAA

3851 TGAATCGGCC AACGCGCGGG GAGAGGCGGT TTGCGTATTG GGCGCTCTTC

3901 CGCTTCCTCG CTCACTGACT CGCTGCGCTC GGTCGTTCGG CTGCGGCGAG

3951 CGGTATCAGC TCACTCAAAG GCGGTAATAC GGTTATCCAC AGAATCAGGG

4001 GATAACGCAG GAAAGAACAT GTGAGCAAAA GGCCAGCAAA AGGCCAGGAA

4051 CCGTAAAAAG GCCGCGTTGC TGGCGTTTTT CCATAGGCTC CGCCCCCCTG

4101 ACGAGCATCA CAAAAATCGA CGCTCAAGTC AGAGGTGGCG AAACCGACAG

4151 GACTATAAAG ATACCAGGCG TTTCCCCCTG GAAGCTCCCT CGTGCGCTCT

4201 CCTGTTCCGA CCCTGCCGCT TACCGGATAC CTGTCCGCCT TTCTCCCTTC

4251 GGGAAGCGTG GCGCTTTCTC ATAGCTCACG CTGTAGGTAT CTCAGTTCGG

4301 TGTAGGTCGT TCGCTCCAAG CTGGGCTGTG TGCACGACCC CCCGTTCAGC

4351 CCGACCGCTG CGCCTTATCC GGTAACTATC GTCTTGAGTC CAACCCGGTA

4401 AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA GGATTAGCAG

4451 AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTAACT

Fig. 6 (continued)

4501 ACGGCTACAC TAGAAGGACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA

4551 GTTACCTTCG GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC

4601 CGCTGGTAGC GGTGGTTTTT TTGTTTGCAA GCAGCAGATT ACGCGCAGAA

4651 AAAAAGGATC TCAAGAAGAT CCTTTGATCT TTTCTACGGG GTCTGACGCT

4701 CAGTGGAACG AAAACTCACG TTAAGGGATT TTGGTCATGA GATTATCAAA

4751 AAGGATCTTC ACCTAGATCC TTTTAAATTA AAAATGAAGT TTTAAATCAA

4801 TCTAAAGTAT ATATGAGTAA ACTTGGTCTG ACAGTTACCA ATGCTTAATC

4851 AGTGAGGCAC CTATCTCAGC GATCTGTCTA TTTCGTTCAT CCATAGTTGC

4901 CTGACTCCCC GTCGTGTAGA TACTACGATA CGGGAGGGCT TACCATCTGG

4951 CCCCAGTGCT GCAATGATAC CGCGAGACCC ACGCTCACCG GCTCCAGATT

5001 TATCAGCAAT AAACCAGCCA GCCGGAAGGG CCGAGCGCAG AAGTGGTCCT

5051 GCAACTTTAT CCGCCTCCAT CCAGTCTATT AATTGTTGCC GGGAAGCTAG

5101 AGTAAGTAGT TCGCCAGTTA ATAGTTTGCG CAACGTTGTT GCCATTGCTA

5151 CAGGCATCGT GGTGTCACGC TCGTCGTTTG GTATGGCTTC ATTCAGCTCC

5201 GGTTCCCAAC GATCAAGGCG AGTTACATGA TCCCCCATGT TGTGCAAAAA

5251 AGCGGTTAGC TCCTTCGGTC CTCCGATCGT TGTCAGAAGT AAGTTGGCCG

5301 CAGTGTTATC ACTCATGGTT ATGGCAGCAC TGCATAATTC TCTTACTGTC

5351 ATGCCATCCG TAAGATGCTT TTCTGTGACT GGTGAGTACT CAACCAAGTC

5401 ATTCTGAGAA TAGTGTATGC GGCGACCGAG TTGCTCTTGC CCGGCGTCAA

5451 TACGGGATAA TACCGCGCCA CATAGCAGAA CTTTAAAAGT GCTCATCATT

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5601 TTACTTTCAC CAGCGTTTCT GGGTGAGCAA AAACAGGAAG GCAAAATGCC

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5851 CGCGGCGGGT GTGGTGGTTA CGCGCAGCGT GACCGCTACA CTTGCCAGCG

5901 CCCTAGCGCC CGCTCCTTTC GCTTTCTTCC CTTCCTTTCT CGCCACGTTC

5951 GCCGGCTTTC CCCGTCAAGC TCTAAATCGG GGGCTCCCTT TAGGGTTCCG

6001 ATTTAGTGCT TTACGGCACC TCGACCCCAA AAAACTTGAT TAGGGTGATG

Fig. 6 (continued)

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6051  GTTCACGTAG TGGGCCATCG CCCTGATAGA CGGTTTTTCG CCCTTTGACG
6101  TTGGAGTCCA CGTTCTTTAA TAGTGGACTC TTGTTCCAAA CTGGAACAAC
6151  ACTCAACCCT ATCTCGGTCT ATTCTTTTGA TTTATAAGGG ATTTTGCCGA
6201  TTTCGGCCTA TTGGTTAAAA AATGAGCTGA TTTAACAAAA ATTTAACGCG
6251  AATTTTAACA AAATATTAAC GCTTACAATT TCCATTCGCC ATTCAGGCTG
6301  CGCAACTGTT GGGAAGGGCG ATCGGTGCGG GCCTCTTCGC TATTACGCCA
6351  GCTGGCGAAA GGGGGATGTG CTGCAAGGCG ATTAAGTTGG GTAACGCCAG
6401  GGTTTTCCCA GTCACGACGT TGTAAAACGA CGGCCAGTGA GCGCGCGTAA
6451  TACGACTCAC TATAGGGCGA ATTGGGTACC GGGCCCCCCC TCGA
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Fig. 7

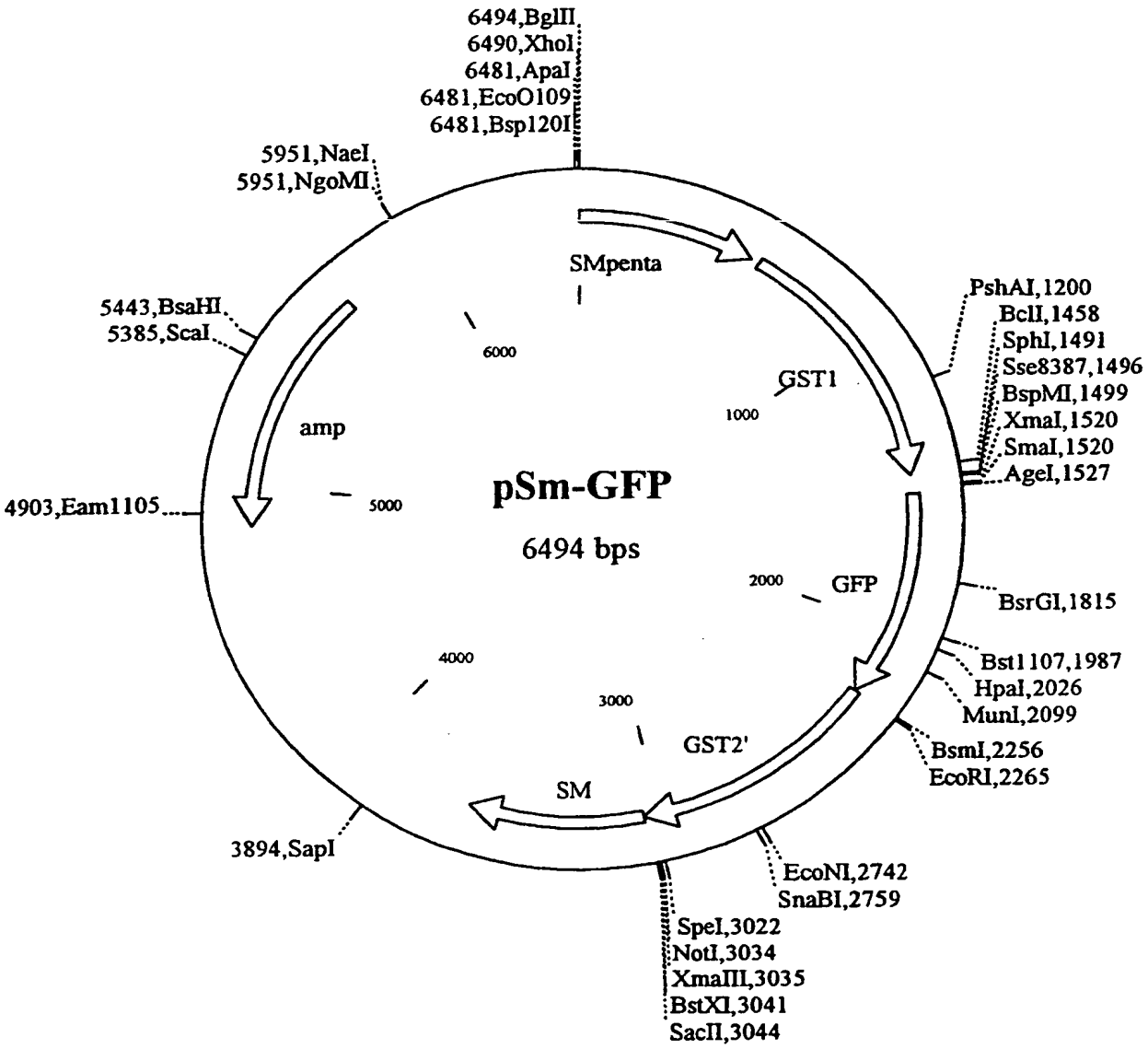
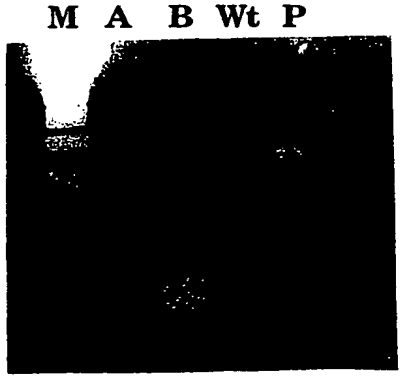

6494,BglII
6490,XhoI
6481,ApaI
6481,EcoO109
6481,Bsp120I
5951,NaeI
5951,NgoMI
SMpenta
PshAI,1200
BclI,1458
SphI,1491
Sse8387,1496
BspMI,1499
XmaI,1520
SmaI,1520
AgeI,1527
5443,BsaHI
5385,ScaI
6000
GST1
1000
amp
pSm-GFP
6494 bps
5000
4903,Eam1105
2000
GFP
BsrGI,1815
4000
Bst1107,1987
HpaI,2026
MunI,2099
3000
GST2'
BsmI,2256
EcoRI,2265
SM
3894,SapI
EcoNI,2742
SnaBI,2759
SpeI,3022
NotI,3034
XmaIII,3035
BstXI,3041
SacII,3044

Fig. 8


M A B Wt P

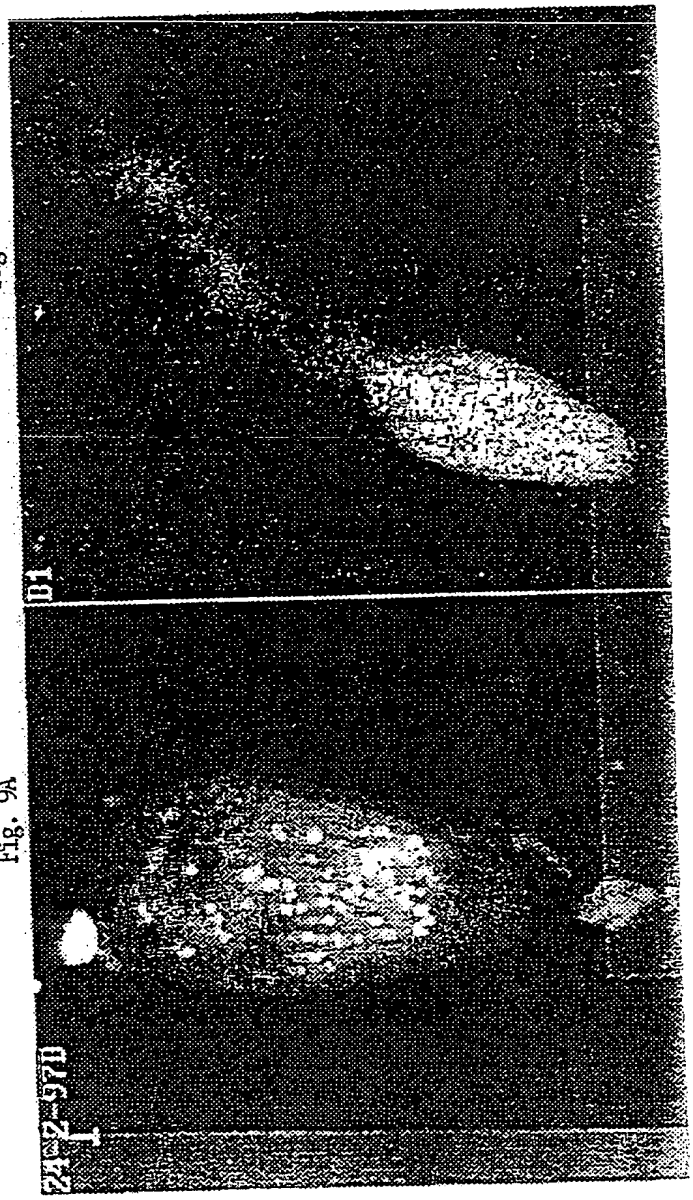


Fig. 9B

Fig. 9A



Fig. 9D

Fig. 9C

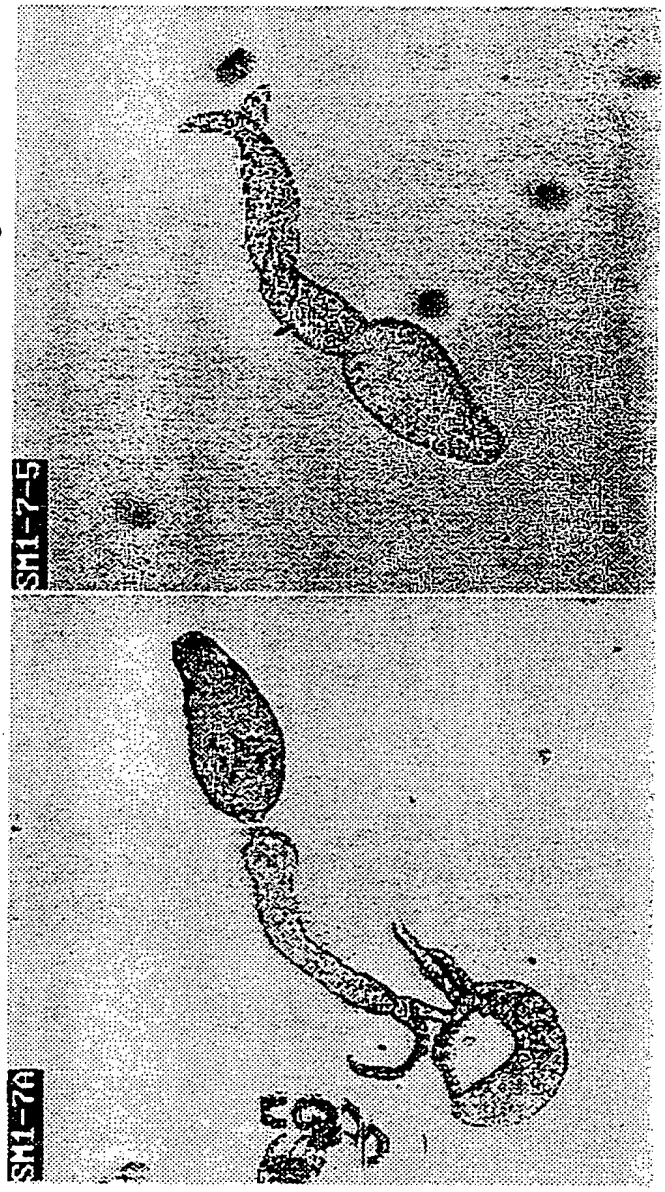


Fig. 10B

Fig. 10A

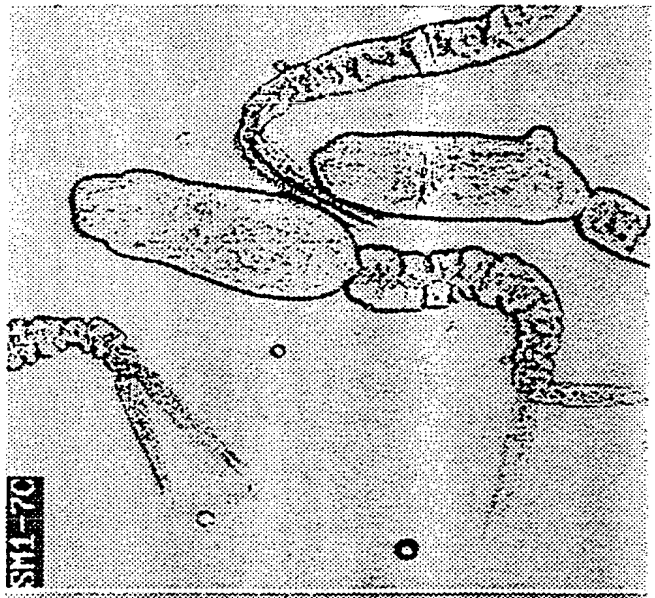


Fig. 10D

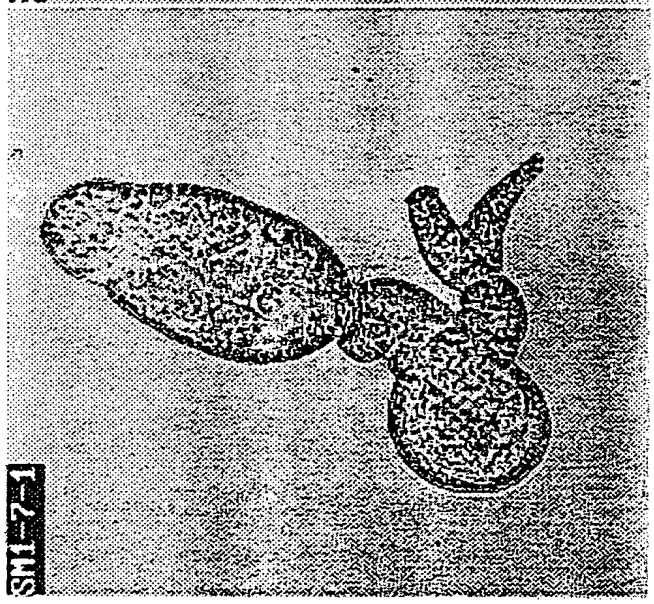


Fig. 10C

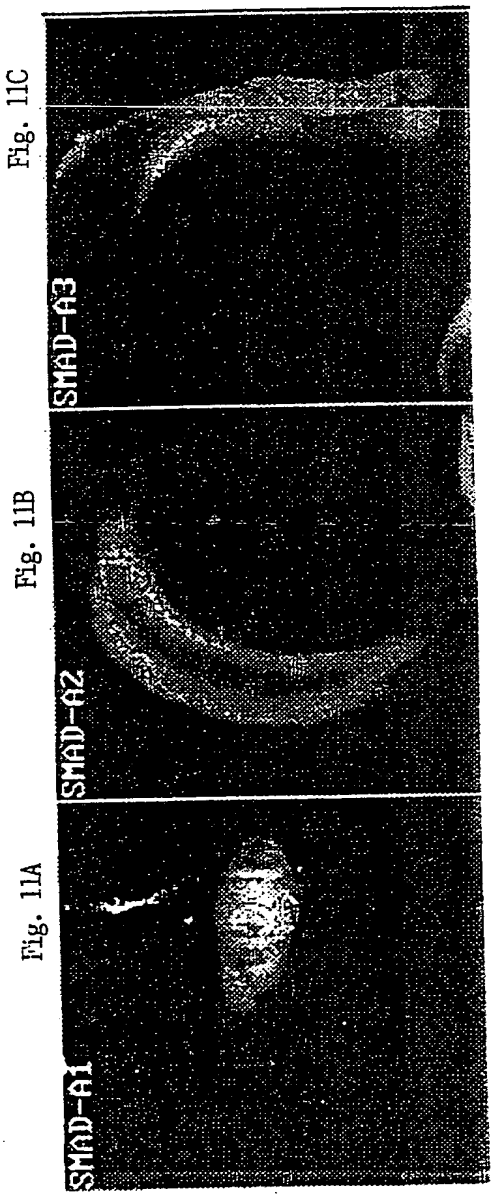


Fig. 11A

Fig. 11B

Fig. 11C

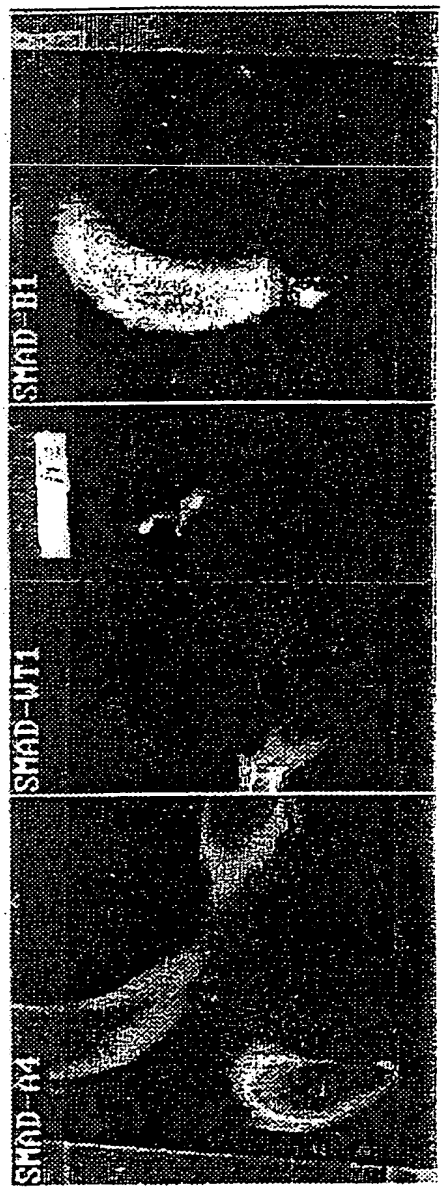


Fig. 11D

Fig. 11E

Fig. 11F

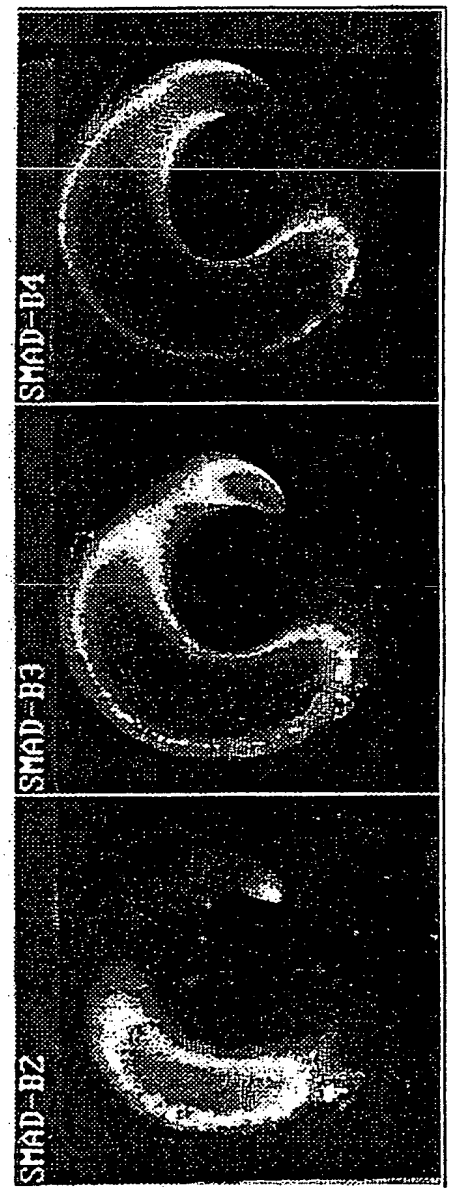


Fig. 11G

Fig. 11H

Fig. 11I

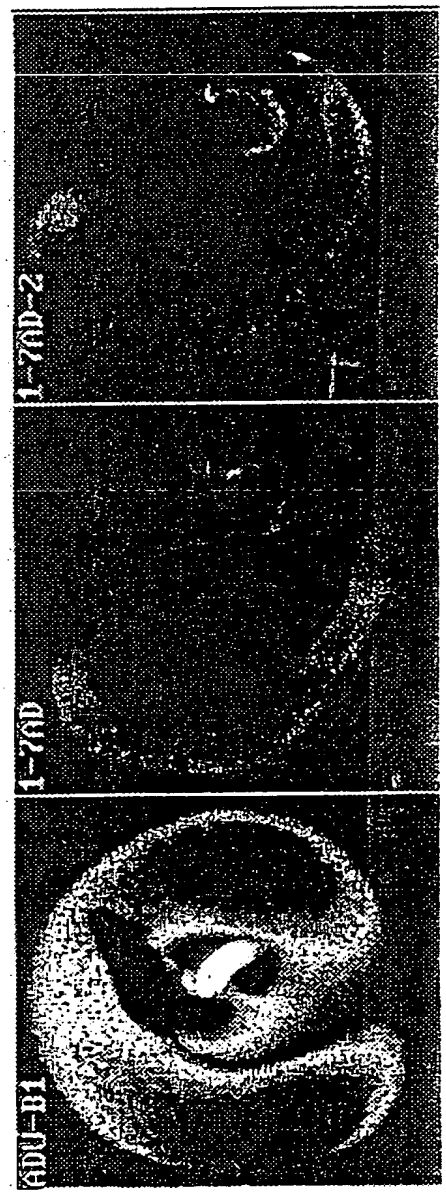


Fig. 12A

Fig. 12B

Fig. 12C

Fig. 12D

Fig. 12E

Fig. 12F



Fig. 13B

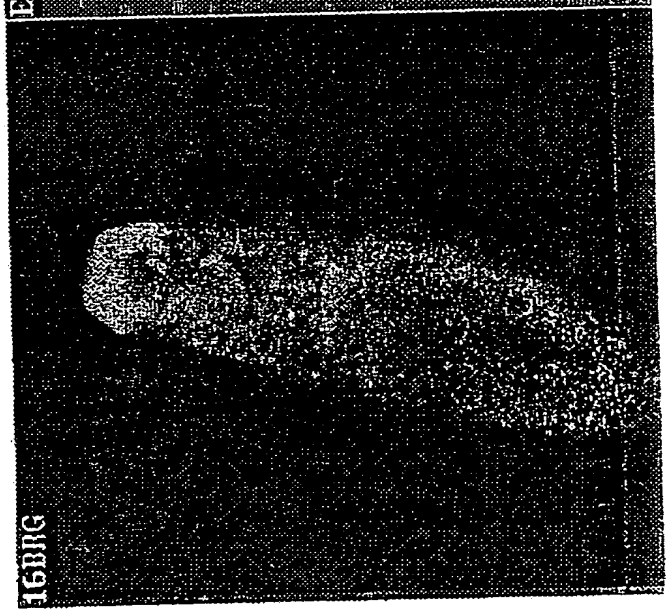


Fig. 13A

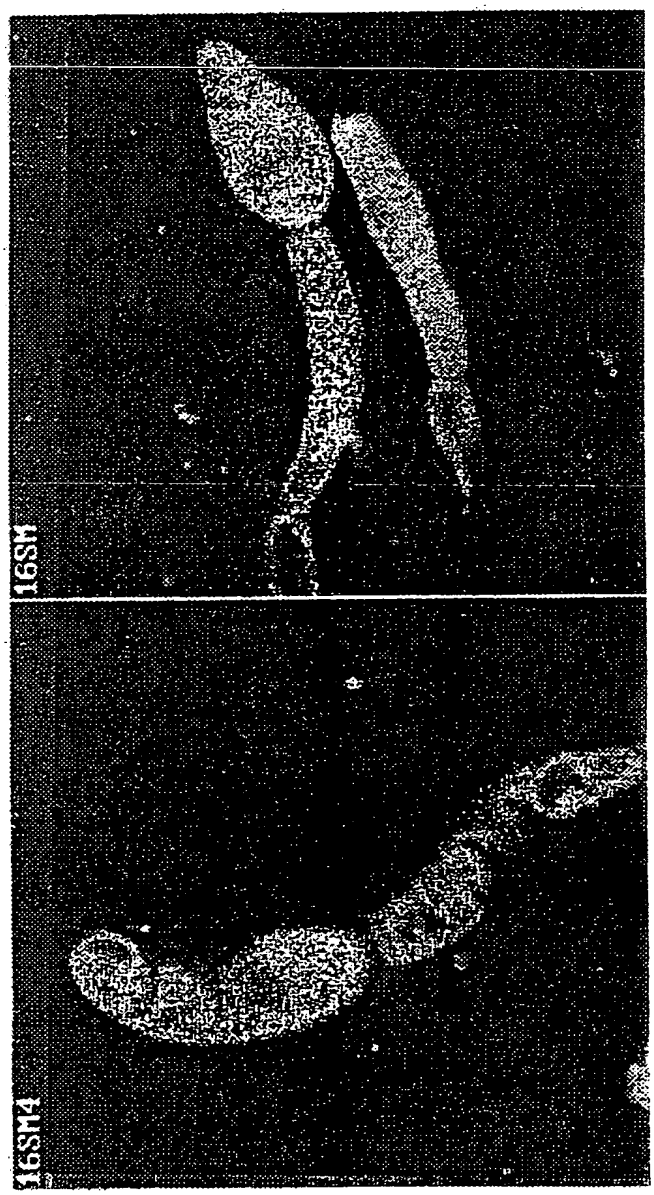


Fig. 13D

Fig. 13C

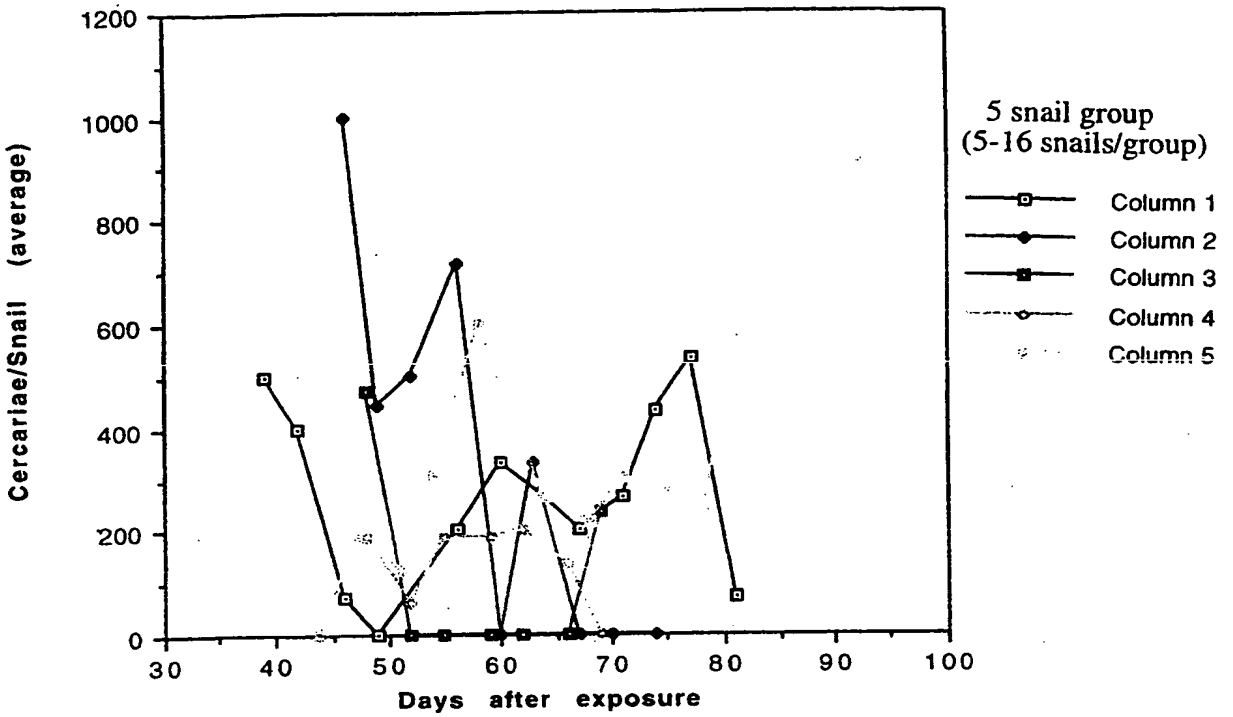


Fig. 14

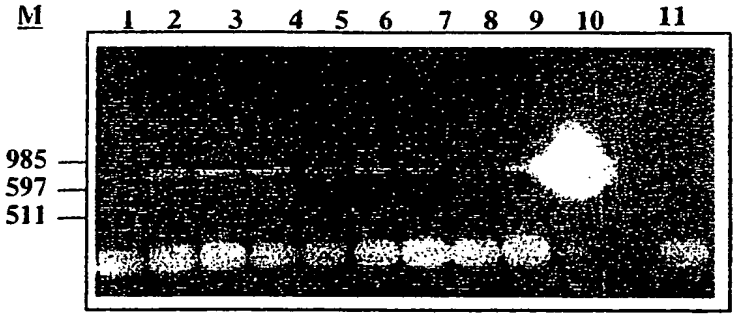


Fig. 15

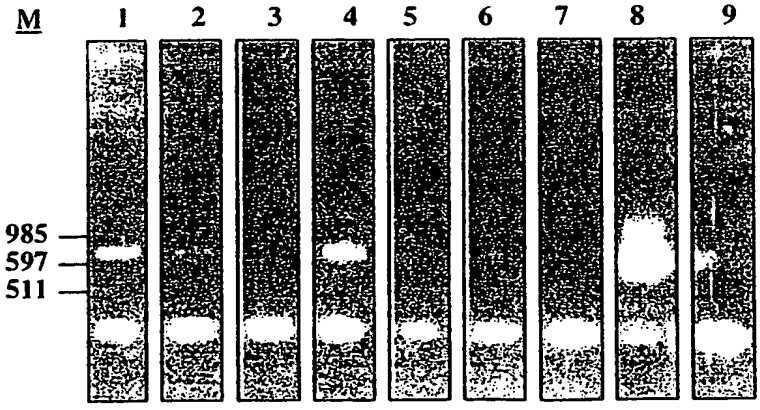


Fig. 16